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*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

<u>L56</u>	4942525.pn. and complet\$4	1	<u>L56</u>
<u>L55</u>	L54 and retir\$7	0	<u>L55</u>
<u>L54</u>	4942525.pn. and (branch\$4 or dependen\$5 or conflict\$3 or contend\$3 or comptet\$4)	2	<u>L54</u>
<u>L53</u>	4942525.pn. and (dependen\$5 or conflict\$3 or contend\$3 or comptet\$4)	0	<u>L53</u>
<u>L52</u>	4942525.pn. and (conflict\$3 or contend\$3)	0	<u>L52</u>
<u>L51</u>	l3 and (conflict\$3 or contend\$3)	2	<u>L51</u>
<u>L50</u>	L49 not l44	140	<u>L50</u>
<u>L49</u>	L47 not l43	140	<u>L49</u>
<u>L48</u>	L47 not l44	178	<u>L48</u>
<u>L47</u>	L46 and l11	329	<u>L47</u>
<u>L46</u>	L39 and (instruction\$1 or operand\$1 or opcod\$3) near7 (fifo\$1 or buffer\$1)	459	<u>L46</u>

*DB=USPT; PLUR=YES; OP=OR*

<u>L45</u>	L39 and (instruction\$1 or operand\$1 or opcod\$3) near7 (fifo\$1 or buffer\$1)	392	<u>L45</u>
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*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

<u>L44</u>	L43 not l41	173	<u>L44</u>
<u>L43</u>	L39 near45 (instruction\$1 or operand\$1 or opcod\$3) near7 (fifo\$1 or buffer\$1)	220	<u>L43</u>
<u>L42</u>	L39 near45 (instruction\$1 or operand\$1 or opcod\$3) and buffer\$1	319	<u>L42</u>
<u>L41</u>	L39 near45 (instruction\$1 or operand\$1 or opcod\$3) and buffer\$1 near12 stage\$3	80	<u>L41</u>
<u>L40</u>	L39 near15 (instruction\$1 or operand\$1 or opcod\$3) and buffer\$1 near12 stage\$3	80	<u>L40</u>
<u>L39</u>	allocat\$7 near15 depende\$5	3819	<u>L39</u>
<u>L38</u>	4942525.pn. and depend\$5	1	<u>L38</u>
<u>L37</u>	l33 not l34	11	<u>L37</u>
<u>L36</u>	l34 not l35	59	<u>L36</u>
<u>L35</u>	L33 and allocat\$7 near15 depende\$5	48	<u>L35</u>
<u>L34</u>	L33 and allocat\$7	107	<u>L34</u>
<u>L33</u>	L32 and decod\$5 near8 (concurrent\$3 or simultaneous\$3 or parallel\$5)	118	<u>L33</u>
<u>L32</u>	(reorder\$4 or rearrang\$7) and l23	434	<u>L32</u>
<u>L31</u>	l3 and complet\$3	1	<u>L31</u>
<u>L30</u>	L27 and l12	98	<u>L30</u>
<u>L29</u>	nd L28	960399	<u>L29</u>
<u>L28</u>	L27 l12	3887	<u>L28</u>
<u>L27</u>	retir\$7 near12 tempor\$7 near4 (buffer or register\$1 or stor\$5)	158	<u>L27</u>
<u>L26</u>	5481734.pn. and retir\$7	0	<u>L26</u>
<u>L25</u>	retir\$7 and l3	0	<u>L25</u>
<u>L24</u>	retir\$7 and l9	3	<u>L24</u>

<u>L23</u>	prefetch\$5 near12 (buffer\$1 or fifo\$1)	3094	<u>L23</u>
<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>			
<u>L22</u>	l5 and l17	1	<u>L22</u>
<u>L21</u>	l5 and l16	0	<u>L21</u>
<u>L20</u>	l5 and l13	24	<u>L20</u>
<u>L19</u>	l5 and l12	50	<u>L19</u>
<u>L18</u>	l5 and l11	85	<u>L18</u>
<u>L17</u>	(718/102-108)![CCLS]	4082	<u>L17</u>
<u>L16</u>	(717/159-162)[CCLS]	891	<u>L16</u>
<u>L15</u>	(711/118-221)[CCLS]	23669	<u>L15</u>
<u>L14</u>	(711/118-221)![CCLS]	23669	<u>L14</u>
<u>L13</u>	(711/118-221)[CCLS]	23669	<u>L13</u>
<u>L12</u>	(712/205-219, 225-228, 245-248, 233-240)[CCLS]	3827	<u>L12</u>
<u>L11</u>	(712/2-300)[CCLS]	12348	<u>L11</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L10</u>	l3 and branch\$4 near12 predict\$5	1	<u>L10</u>
<u>L9</u>	L7 and branch\$4 near12 predict\$5	14	<u>L9</u>
<u>L8</u>	L7 and branch\$4 near12 predict\$5	14	<u>L8</u>
<u>L7</u>	L5 near55 (fifo or buffer\$1 or register\$1) near8 instruction\$1	52	<u>L7</u>
<u>L6</u>	L5 near25 buffer\$1	7	<u>L6</u>
<u>L5</u>	(concurrent\$3 or simultaneous\$3 or parallel\$5) near8 transfer\$5 near8 register near1 file	131	<u>L5</u>
<u>L4</u>	L3 and renam\$5	1	<u>L4</u>
<u>L3</u>	5488729.pn.	2	<u>L3</u>
<u>L2</u>	L1 and (concurrent\$3 or simultaneous\$3 or parallel\$5) near7 issu\$5	175	<u>L2</u>
<u>L1</u>	renam\$5 and bypass\$5 and instruction\$1 near7 (fetch\$5 or prefetch\$5)	729	<u>L1</u>

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IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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[High-Performance Computer Architecture, 2005. HPCA-11. 11th International Symposium on](#)  
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- ☐ 5. **Using rewriting rules and positive equality to formally verify wide-issue out-of-order microprocessor reorder buffer**  
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